V.R. SIDDHARTHA ENGINEERING COLLEGE

Annual Report of IQAC
2017-18

Initiatives taken and activities performed

In the process of development and application of quality parameters, IQAC has taken up the following academic, administrative and Green initiatives and activities which were proposed in 2016-17.

1. Improvement in Library utilization,
2. Full automation of College activities
3. Revenue generation from corporate training programs,
4. Quality Policy- revised
5. Minimisation of single use plastics in the campus
6. Updation of Curriculum and Syllabus
7. Model development at department level

Initiative 1:**Improvement in Library utilization**

Objective: To encourage the students to utilize the library resources

Measures taken:
Awareness programs for first and second year students covering all resources available in the library such as specialisation-wise resources,Registration on NDL(National Digital Library), NPTEL, new arrivals, books on GK & GATE Exams, displaying review note& cover page of new arrivals, have been periodically conducted. Besides motivating the students on continuous basis the library is organising events like library day celebration, book hunting, etc. In addition, the College has provided dedicated computer centre to access digital library content and also a digital library in girls hostel in Air conditioned hall.The central library is managing in coordination of departmental libraries. OPAC and Libsys software for library management are in place.

Outcome:
The library utilization was improved to 8% , which is evident from the feedback survey. Many students are accessing the digital library content through their departmental computer centres. Exclusive book bank for SC/ST students is helping in their studies.

Initiative 2: **Full Automation of college activities.**

Objective: To make use of college resources effectively, improve the information dissemination, data storage and report generation for quality certifying agencies and reduce the paper consumption.

Measures Taken:
The existing software used for various academics &administrative activities have been replaced with fully automated Content Management System(CMS) for all activities, which covers Student Academic Section, Scholarship Section, Course Management, tracking records of students, Hostel Management, faculty details, Fee back system, examination works, Placement activities, payroll management and Inventory management.
Bulk SMS is introduced to reduce the paper utilization for circulation of information among faculty and students. E-notice boards were also installed in the departments to circulate the information among the faculty and students. CCTV system is in place in the campus for better security of students and staff

Outcome: The latest fully automated CMS Software is facilitating easy interactions and functioning of various departments. It allows the Institute to manage the entire academic and administrative processes hassle free. The CCTV system is making campus more student's friendly. It deters crime, prevent vandalism and theft and eliminate unauthorized intruders.

Initiative 3: Revenue generation from corporate training programs.

Objective: To educate the local industry with the available expertise of Institute and thus publicising the Institute and to generate revenue.

Measures taken
Training programs have been provided to corporate industry of Water Resource Department - Assistant ExecutiveEngineers, APEWIDC, Government ofAndhra Pradesh –Endowment Department,Delhi Metro Rail Corporation, AP Police State Housing Corporation, Resin Allied Products(RAP),Nidamanuru,Vijayawada,AP, Efftronics Systems Pvt. Ltd. , 40-15-9,Brundavan Colony, MG Road,Sriram Nagar, BenzCircle, Vijayawada,Andhra Pradesh 520010

Outcome
The above objective was achieved.

Initiative4 : **Quality Policy is revised and approved by the academic council and Governing Body**

To meet ever changing technologies, societal requirements and Outcome Based Education, the existing Quality Policy was modified and presented below

" VRSEC strives to impart Knowledge, Skills and Attitude through continuous improvement to meet the ever changing needs of Industry and for the sustainable development of Society"

Initiative 5: Minimisation of single use plastics in the campus

Objective: To inculcate and motivate the students on reduction of plastic usage in daily life so as to protect their health and environment. It is Social responsibility of every one that needs to be cultivated from student level.

Measures Taken:
1. Canteen management was instructed to replace plastics with non-plastic items and avoided the usage of plastic spoons, plates, cups, food backs and glasses in our college canteen
2. HODs of all depts. were instructed to create awareness among students through student clubs/associations/ activities

3. Separate bins were provided for dry and wet solid waste collection.
4. Activities like 'world no plastics day' were celebrated in the campus.

Outcome
Some improvement in reduction of plastics was observed.

Initiative 6: Updation of Curriculum and Syllabus

Objective: The curriculum has been changed to meet the changing industry needs and feedback of stakeholders for better placements. The revised curriculum is named here after as VR-17. Provision was made for CBCS, Student publications, core and soft skill courses, EPICS, etc. in VR 17 curriculum.

Salient Features:
1. The curriculum is updated in A.Y 2017-18 as per the AICTE, Industrialrequirements and stakeholder's feedback.
2. Under the revised curriculum, the number of credits required for theory hasbeen reduced to 165 from 200 as per AICTE guidelines.
3. Students may carry out full time project at industry by availing CBCS facility.
4. Competitions conducted by professional societies (IEEE,IETE,ASME,IE,CSI, etc.,) in the college or conducted by the other colleges are introduced in studentpractice courses
5. Student publications in conference/journal are introduced in student practicecourses in the VR 17 curriculum.
6. Students can also opt for skill based courses of 15 hours duration which will beoffered by experts from industry/other institutions/in house faculty onspecialized topics.
7. Engineering Project In Community Services (EPICS) is introduced in VR17curriculum. Students will go to the society (Villages/ Hospitals/Towns, etc,.)to identify the societal problem and make necessary literature survey for afeasible solution.
8. In VR17 regulations, three marks in each theory course shall be given based onthe percentage of attendance.

Outcome: It is hoped that The changes made in the curriculum will help the students to fulfil the needs of Industry and Society at large. It will enable them to acquire the skills required for the job and allow them to think and innovate new ideas.

All departments have conducted various activities to students and faculty under the guidance of IQAC. Some of them were presented in this report.

Initiative 7: **Departmental Model development**

Dr. M.V.S. Raju, has presented a report on Innovative Models developed by the Engineering departments and exhibited on College Innovations day held on 15th Sept. 2018 (Engineers Day). He highlighted the Models recognized at outside platforms and emphasized the 'Aqua Culture monitoring system' developed in ECE department who secured six prizes at National / International level. He stressed the need of such Innovative models for the recognition of our students and the Institute as well, hence he requested the Heads of all the departments to motivate their students & faculty to develop Innovative Models to get recognition at outside prominent platforms in more number.

Some of the activities are detailed below

Activity 1: **'Teaching-Learning' Training program**

To inculcate teaching skills among junior faculty and value edition to Art of teaching and train the faculty on regular basis to update their teaching skills by inviting experts from teaching-learning training centres of reputation.

The IQAC in association with National Institute of Technical Teachers Training and Research (NITTTR), Chennai was organized a Faculty Development Programme on "Outcome Based Education /Student Evaluation and Question Paper Setting" during 16th – 18th April, 2018.

The Programme covered the various modules under Bloom's Taxonomy with respect to Student Evaluation and Question Paper Setting. The modules covered in the technical session are as follows:

➢ Principles of Teaching Learning
➢ Instructional Objectives
➢ Basics of Evaluation
➢ Development of Test & Validation
➢ Design of Achievement Test
➢ Online Tools for evaluation

The programme was suitably organized to enhance the abilities with respect to preparation of Question papers and to evaluate the students properly.

Activity 2: Training for non-teaching staff

To impart functional knowledge on Ms Office, this training was conducted a wide range of covered software titles including Excel, Word and PowerPoint.

College organized one week in-House Training program on " Laboratory Automation" from 27ᵗʰ March to 1ˢᵗ April 2017 to Technical staff of our college.

Training was given in MS word and Excel by the faculty members of CSE & IT Departments. Microsoft Office products help in improve work efficiency with user friendly features that enable easy and secure information sharing. Microsoft Office products provide resources for professional presentation of data that is compatible with most operating systems.

Technical staff was trained intimesaving tips and shortcuts to work more quickly and efficiently in word, Excel and PPt, etc. They explored the Microsoft Office applications suite and document write up, create spreadsheets, and many more.

Activity 3: Awareness about Research Methodologies and Patent filing for Researchers

To define and develop an approach to research problem and to make them understand on the need for intellectual property in technology and to enthuse towards filing patents on their projects and start-ups.

Participants have come to know about how to read and understand paper's keywords, literature survey, methods used, performance analysis and conclusion and future work and also how to find research gaps in literature survey.

Future Plan for next academic year 2018-19
1. Implementation of Quality Circle approach in Identified areas
2. Assessment for comprehensive performance of departments
3. Departmental Distinctiveness
4. Institutional Distinctiveness

Dr.M.V.S.Raju
Coordinator- IQAC

Dr.A.V. Ratna Prasad
Chairman, IQAC &
Principal, VRSEC
PRINCIPAL
V.R.Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007